

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1 - 21. (Cancelled).

22. (Currently amended) An implant comprising:

titanium and having one or more surfaces which can be applied in or on tissue areas and/or bone growth areas, one or more of the said surfaces being arranged with a depot for a bone-growth-initiating or bone-growth-stimulating substance,

wherein the depot is formed by a pore arrangement in a relatively thick oxide layer on the titanium, ~~and~~

wherein the oxide layer has a thickness in the range of 1-20 μm , and

wherein the oxide layer is highly porous, with 1×10^7 - 1×10^{10} pores/ cm^2 .

23. (Currently amended) The implant according to claim 22, wherein the oxide layer has a surface ~~20~~ roughness in a range of 0.4 - 5 μm .

24. (Cancelled).

25. (Previously presented) The implant according to claim 22, wherein each surface essentially has pores with diameter sizes in the range of 0.1 - 10 μm , and/or in that the total pore volume is within a range of 5×10^{-2} and 10^{-5} cm^3 .

26 - 28. (Cancelled).

29. (Previously presented) The implant according to claim 22, wherein the oxide layer has a thickness in the range of 2 - 20 μm .
30. (New) The implant according to claim 22, wherein the oxide layer is highly porous, with pore diameters in the range of 0.01 - 10 μm .
31. (New) The implant according to claim 22, wherein the oxide layer has a surface roughness of about 1 - 5 μm .
32. (New) The implant according to claim 22, wherein the implant is a dental implant.